CLAIMS

- An apparatus for removing body fat in a human body, comprising:
- a generating means generating electric pulses of 5 low-frequency band; and
 - a transmitting means transmitting the electric pulses to an exercising human body.
 - 2. The apparatus set forth in claim 1, wherein said transmitting means comprises surface-attaching pads.
 - 3. The apparatus set forth in claim 2, wherein the surface-attaching pads consist of a plurality of pairs of positive(+) and negative(-) pole pads, each pair being arranged at predetermined intervals, and also arranged such that each dipole moment of each pair should be alternated.
 - 4. The apparatus set forth in claim 1, wherein said generating means changes the frequency band of the electric pulses at intervals, or changes pulse interval intermittently.
 - 5. A body fat removing apparatus installed in an athletic equipment, comprising:
- 20 a generating means generating electric pulses of low-frequency band;
 - a transmitting means transmitting the electric pulses to an exercising human body; and
- an attaching means for attaching the transmitting means onto 25 the exercising human body.
 - 6. The apparatus set forth in claim 5, wherein said attaching means is a belt, a long band, an abdominal binder, or a suit which is made of flexible material.
- 7. The apparatus set forth in one of claims 1 to 5, further 30 comprising:

a measuring means for measuring heart rate of the human body; and

- a comparing means for comparing the measured heart rate with a preset heart rate reference.
- 8. The apparatus set forth in claim 5, further comprising: a measuring means for measuring heart rate of the human body; a comparing means for comparing the measured heart rate with a preset heart rate reference; and
- a controller for controlling operation of said athletic 10 equipment based on the comparison result of said comparing means.
 - 9. A method for removing body fat in a human body, comprising the steps of:

generating electric pulses of low-frequency band; and transmitting the electric pulses to an exercising human 15 body.

10. The method set forth in claim 9, further comprising the steps of:

measuring heart rate of the human body; and
 comparing the measured heart rate with a preset heart rate
20 reference.

- 11. The method set forth in claim 10, further comprising the step of controlling operation of an athletic equipment based on the result of said comparing step.
- 12. The method set forth in claim 11, wherein said 25 controlling step controls the exercising speed and/or slope and/or exercising time of the athletic equipment.
 - 13. The method set forth in claim 10 or 11, further comprising the step of outputting a warning message or a warning sound based on the result of said comparing step.
- 30 14. The method set forth in claim 10, wherein the heart rate reference is determined based on an age and/or maximum heart rate and/or fatness ratio of the human body.
 - 15. A body fat removing apparatus installed in an aerobic

athletic equipment, comprising:

- a measuring means for measuring heart rate of a user;
- a comparing means for comparing the measured heart rate with a preset heart rate reference; and
- 5 a controller for controlling operation of said athletic equipment based on the comparison result of said comparing means.
 - 16. An apparatus for removing body fat in a human body, comprising:
- a generating means generating electric pulses of 10 low-frequency band;
 - a transmitting means transmitting the electric pulses to an exercising human body;
- an attaching means for attaching the conducting means onto the exercising human body, wherein said generating means, said 15 transmitting means, and said attaching means are installed in an athletic equipment;
 - a measuring means for measuring current heart rate of a person exercising on the athletic equipment;
- a comparing means for comparing the measured heart rate with 20 a preset heart rate reference; and
 - a controller for controlling operation of the athletic equipment based on the comparison result of the comparing means.
- 17. The apparatus set forth in claim 15 or 16, wherein the heart rate reference is determined based on an age and/or maximum 25 heart rate and/or fatness ratio of the person.
 - 18. The apparatus set forth in claim 15 or 16, wherein said controller controls the exercising speed and/or slope and/or exercising time of the athletic equipment.
- 19. The apparatus set forth in claim 15 or 16, further 30 comprising an alarming means for outputting a warning message or a warning sound based on the comparison result of said comparing means.

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AMENDED CLAIMS

[received by the International Bureau on 22 October 2001 (22.10.01); original claim 1-19 replaced by amended claims 1-13 (3 pages)]

- An apparatus for removing body fat in a human body, comprising:
 - a heart rate detector of a human body;
- a comparator, electrically coupled to said detector, between the detected heart rate and a predetermined heart rate reference; and
 - an aerobic athletic equipment operatively controlled by a controller responsive to the output of the comparator.
- 2. An apparatus for removing body fat in a human body comprising:
 - a heart rate detector of a human body;
- a comparator, electrically coupled to said detector, \mathbb{H} between the detected heart rate and a preset heart rate \mathbb{H}_{b} 15 reference; and
 - an indicator, coupled to the comparator, that output a alarming signal responsive to the output of the comparator.
 - 3. The apparatus set forth in one of claims 1 and 2, further comprising:
 - a pulse generator in low frequency band; and
 - a transmitter, coupled to said generator, output the pulse from said generator to human body in a aerobic exercise state.
 - The apparatus for removing body fat in a human body,
 comprising:
 - a pulse generator in low frequency band;
 - a transmitter, coupled to said generator, output the pulse from said generator to human body in a aerobic exercise state.
 - 30 5. The apparatus set forth in claim 4, wherein said generator changes the frequency band of the electric pulses

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at intervals, or changes pulse interval intermittently.

- 6. The apparatus set forth in one of claims 3 and 4, wherein said transmitter comprises a contacting means on the human body.
- 7. The apparatus set forth in claim 4, wherein said contacting means consists of a plurality of positive(+) and negative(-) pole pads, arranged such that dipole moment of pads should be alternated.
- $\theta.$ A method for removing body fat in a human body, 10 -comprising the steps of:

detecting a heart rate of a human body;

comparing said detected heart rate to a predetermined heart rate; and $% \left(1\right) =\left(1\right) +\left(1$

controlling operation of an aerobic athletic equipment responsive to the output of the comparing.

- 9. The method set forth in claim 7, wherein controlling step controls the driving speed and/or the driving slope of said aerobic athletic equipment.
- 10. A method for removing body fat in a human body, 20 comprising the steps of:

detecting a heart rate of a human body;

comparing said detected heart rate to a predetermined heart rate; and

indicating a alarming signal responsive to the output of $25\ \mbox{the comparator.}$

11. The method set forth in one of claims 7 to 9, further comprising:

generating electric pulses of low frequency band; and transmitting said generated pulse to human body in a aerobic exercise state.

12. The method for removing body fat in a human body, comprising the steps of:

generating electric pulses of low frequency band; and

transmitting said generated pulse to human body in a aerobic exercise state.

13. The method set forth in one of claims 9 and 10, wherein the predetermined heart rate reference is determined based upon an age and/or an maximum heart rate and/or an fatness ratio of an user.